

#261

EXPLORER 43
DC ELECTRIC FIELD
71-019A-02A

3 TAPES

IMP-I

DC ELECTRIC FIELD

71-019A-02A

This data set has been restored. The original tapes were 1600 BPI, binary, 9-track. The DR and DS tape is 9-track, binary and is multi-filed. The DR tape is a 3480 cartridge and the DS tape is 6250 BPI.

The DR, DS, and DD numbers along with the time spans are given as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR02922	DS02922	D-13799	1-50	03/14/71 - 10/07/71
		D-13800	51-100	10/07/71 - 05/01/72
		D-13801	101-150	05/01/72 - 11/25/72

EXPLORER 43

DC ELECTRIC FIELD DATA

71-019A-02A

This data set consists of (3) tapes with 50 files each. The tapes were generated on the IBM 360/91 computer and have the following characteristics:

9 track, binary, 1600 BPI, variable length, blocked, and spanned records, maximum record size of 1592 bytes, physical record size of 31844 bytes.

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-13799	C-11113	3/14/71 - 10/07/71
D-13800	C-11114	10/07/71 - 5/01/72
D-13801	C-11115	5/01/72 - 11/25/72

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1. Introduction

The IMP-I Electric Field Experiment is designed to monitor the electric field vector by utilizing the orthogonal pairs of extendible antennas mounted on the IMP-I spacecraft. A high resolution analog-to-digital converter and a spectrometer process the induced signals to obtain DC and low frequency AC electric field information. Data from the experiment is processed and reduced at GSFC onto morphological tapes. This document describes the morphological tapes. A description of the satellite is given in reference 1, a description of the Electric Field Experiment is given in reference 2, and a description of the experiment data processing and reduction system is given in reference 3.

2. Tape Format

Each morphological tape contains data from the first and last 12 hours of approximately 50 orbits. Each orbit is stored on the tape as a separate file and each contains in the order of 400 words. The records are of variable length and each contains at most 200 seconds worth of data. The tapes were generated on the IBM 360/91 computer at GSFC and have the following characteristics:

9 track; binary; 1600 BPI; variable length, blocked, and spanned records; maximum record size of 1592 bytes; physical record size of 31844 bytes.

(In IBM 360 terminology:
DCB=(RECFM=VBS,LRECL=1592,BLKSIZE=31844,DEN=3))

4. Sample Printout from Utility Programs

Sample printout from two utility programs is presented. The first is from the tape index program and the second is from the record print program. For a description of these two programs, see reference 3.

5. References

1. "Data Processing Plan for Interplanetary Monitoring Platform-I (Eye) (IMP-I)" September, 1970, GSFC Document X-563-70-337
2. "IMP-I Satellite Electric Field Experiment Report", December 1972, Washington Technological Ass. Inc.
3. "IMP-I GSFC Electric Field Experiment Data System" (to be written)

3. Morphological tape record format

Words	Items	Format	Units	Range	Time/item	Comments
1	IORBIT: ± Orbit Number	I*4				IObit= Orbit Number IObit< 0 if first 12 hours of Orbit IObit>0 if last 12 hours of Orbit
2-73	Ephemeris Data					See section 3.3
74-95	Spectrometer Data Group 1					See section 3.1
96-117	Spectrometer Data Group 2					See section 3.1
118-139	Spectrometer Data Group 3					See section 3.1
140-161	Spectrometer Data Group 4					See section 3.1
162	APP40: Temperature of Exp.	R*4	C	-40 to 84	Same as Ephemeris	
163	ALP2: Sun Angle	R*4	Degrees		Ed	
164	RA: Right ascension of spin axis	R*4	Degrees	?R	Ed	Space (X axis point to vernal equinox, Z axis point to the north pole)
165	DEC: Declination	R*4	Degrees	-90 to p90	Ed	Space (X axis point to vernal equinox, Z axis point to the north pole)
166	SUNT: Launch Time	R*4	Milliseconds		Ed	Optical aspect data
167	SPIN: Spin Period	R*4	Milliseconds		Ed	Optical aspect data
168	EI: Earth Interval	R*4	Milliseconds		Ed	Optical aspect data
169	EW: Earth Width	R*4	Milliseconds		Ed	Optical aspect data
170	VXB: Magnitude/VXB vector	R*4	Volts/meter(mtrs)	≥0	Ed	Solar Ecliptic Coordinates
171	VXBX: X component of VXB Vector	R*4	Volts/meter(mtrs)		Ed	Solar Ecliptic Coordinates
172	VXBY: Y component of VXB vector	R*4	Volts/meter(mtrs)		Ed	Solar Ecliptic Coordinates
173	VXBZ: Z component of VXB vector	R*4	Volts/meter(mtrs)		Ed	Solar Ecliptic Coordinates
174	VXBY: Magnitude of projection of VXB in X, Y plane	R*4	Volts/meter(mtrs)	≥0	Ed	Solar Ecliptic Coordinates
175	PHI: Phase of VXB Electron in equatorial plane (ref to Sun Vector)		Degrees	0 to 360	Ed	PHI 0 when vector points at Sun
176	GMT: Geomagnetic time	R*4	Hour		Ed	May be <0 or >24
177	N: Number of fitted data groups for	I*4		1 ≤ n ≤ 20		
178-188	Fitted data group 1					See Section 3.2
189-199	Fitted data group 2					See Section 3.2
						See Section 3.2
≤ 177	Fitted Data group N					See Section 3.2

3.4 Sub-Commutator Data

Sub-Commutator Position	Sub-Commutator Description	Nominal Voltage	Description
0	Ground	0.00	
1	Calibration Axis	0.00	0.00=l cal 1.14=x cal 0.06=DC
2	AC-DC mode	0.06	2.36=y cal 3.63=z cal 3.75=AC
3	Calibration Position	0.00	-Preamp Noise 1 Noise 2 Ground 2.50
			+Preamp Ground Ground -2.5 Ground
			-Preamp 3.33 +10 -10 Ground
			+Preamp Ground +10 -10 Ground
4	-20 volt monitor	2.51	at temperature =25c
5	+20 volt monitor	2.48	at temperature =25c
6	AC gain	0.00	Z antenna Y or X antenna
			0.00 3 3
			1.14 30 3
			2.36 3 30
			3.63 30 30
7	Spectrometer gain	0.00	channel 1-6 channel 1-12
			0.00 40 40
			1.15 1200 40
			2.40 40 1200
			3.65 1200 1200
8	Antenna X Y or Z	0.00	channel 1-6 Channel 7-12
			0.00 Z X or Y
			1.17 X or Y X or Y
			2.40 Z Z
			3.71 X or Y Z

3.4 Sub-Commutator Data

Sub-Commutator Position	Sub-Commutator Description	Nominal Voltage	Description
9	Antenna X or Y	0.08	0.03=X 3.86=Y
10	Filter	0.00	0.10=wide band 5.00=narrow band
11	-15 volt monitor	2.40	at temp =25C
12	+15 volt monitor	2.75	at temp =25cC
13	Common mode of -Z antenna	2.52	(x-2.5)x6= Voltage on antenna with respect to spacecraft ground
14	Common mode of +Z antenna	2.48	(x-2.5)x6= Voltage on antenna with respect to spacecraft ground
15	Common mode of -Y antenna	2.51	(x-2.5)x6= Voltage on antenna with respect to spacecraft ground

3.2 Fitted Data Group

Relative word	Item	format	units	range	comments
1	YMMDD	I*4			Time of data in this group
2	Milliseconds of day	I*4			Time of data in this group
3	EX: amplitude of electric field vector in equatorial plane (measured with x-axis antenna)	R*4	Millivolts/meters		Time of data in this group
4	PHIX: Phase of electric field vector in equatorial plane referenced to Sun vector (measured with x-axis antenna)	R*4	Degree		if<0, add 360
5	SDX: Standard deviation of EX	R*4	Millivolts/meters		
6	EY: Amplitude of electric field vector in equatorial plane (measured with y axis antenna)	R*4	Millivolts/meters		
7	PHIY: phase of electric field vector in equatorial plane referenced to Sun Vector (measured with y axis antenna)	R*4	Degree		
8	SDY: Standard deviation of EY	R*4			
9	NPP35: Common mode voltage in xy antenna	R*4	Volts	.65 thru 5.625	bit value set to 1.00E+20
10	CH12^v	R*4	volts	.65 thru 5.625	
11	Bit Rate Indicator	I*4		0~1	0=low 1=high
	*note: Fitted data group appears chronologically within a data record				
	**note EX, PHIX,SDX, EY, PHIY and SDY were obtained by using a least squares ** fit to raw experiment data				
	Y(x-2.5) x 6 to get volts				

[Handwritten signature]

Table 9-13

IMP-I MCE Tape Data Record

Word No	Form	Data
0	Fixed Pt	Fortran record size indicator (=000113010001 ₈) This indicates a total data word count of 75 ₁₀
1	Floating Pt	Day of year } time of orbit data Milliseconds of day } in this record
2	Floating Pt	
3	Floating Pt	Longitude (deg) satellite position in geocentric coordinates
4	Floating Pt	Latitude (deg)
5	Floating Pt	Longitude (deg) } satellite position in Latitude (deg) } geomagnetic coordinates
6	Floating Pt	
7	Floating Pt	R ₀ (earth radii) a geomagnetic coordinate of the satellite position, CUL
8	Floating Pt	r, radial distance of the satellite from the center of the earth (km)
9	Floating Pt	GSE _X } GSE _Y } Satellite position in Geocentric GSE _Z } Solar Ecliptic Coordinates (km)
10	Floating Pt	
11	Floating Pt	
12	Floating Pt	GSM _X } GSM _Y } Satellite position in Geocentric GSM _Z } Solar Magnetospheric Coordinates (km)
13	Floating Pt	
14	Floating Pt	
15	Floating Pt	GSE _X } GSE _Y } Moon position in Geocentric Solar GSE _Z } Ecliptic Coordinates (km)
16	Floating Pt	
17	Floating Pt	
18	Floating Pt	GSM _X } GSM _Y } Moon position in Geocentric Solar GSM _Z } Magnetospheric Coordinates (km)
19	Floating Pt	
20	Floating Pt	

Table 9-13 (Continued)

Word No	Form	Data
21	Floating Pt	GEI_X } GEI_Y } GEI_Z } Satellite position Geocentric Equatorial Inertial (km)
22	Floating Pt	
23	Floating Pt	
24	Floating Pt	GEI_X } GEI_Y } GEI_Z } Sun position in Geocentric Equatorial Inertial (UA)
25	Floating Pt	
26	Floating Pt	
27	Floating Pt	Longitude } Latitude } Sub-solar point in geomagnetic coordinates (deg)
28	Floating Pt	
29	Floating Pt	Distance from the satellite to the Moon (km)
30	Floating Pt	
31	Floating Pt	Distance parallel to the x-axis from the satellite to the moon (km)
32	Floating Pt	
33	Floating Pt	
34	Floating Pt	
35	Floating Pt	
36	Floating Pt	
37	Floating Pt	
38	Floating Pt	1st row, 1st column 1st row, 2nd column 1st row, 3rd column 2nd row, 1st column 2nd row, 2nd column 2nd row, 3rd column 3rd row, 1st column 3rd row, 2nd column 3rd row, 3rd column Geocentric Solar Ecliptic-to-Geocentric Solar Magnetospheric transformation matrix.
39	Floating Pt	

Table 9-13 (Continued)

Word No	Form	Data
40	Floating Pt	1st row, 1st column
41	Floating Pt	1st row, 2nd column
42	Floating Pt	1st row, 3rd column
43	Floating Pt	2nd row, 1st column
44	Floating Pt	2nd row, 2nd column
45	Floating Pt	2nd row, 3rd column
46	Floating Pt	3rd row, 1st column
47	Floating Pt	3rd row, 2nd column
48	Floating Pt	3rd row, 3rd column
49	Floating Pt	Right Ascension
50	Floating Pt	Declination
51	Floating Pt	Right Ascension
52	Floating Pt	Declination
53	Floating Pt	Magnitude of the velocity (km/sec)
54	Floating Pt	L McIlwain parameter (earth radii)
55	Floating Pt	B Magnetic field strength (Gamma)
56	Floating Pt	B/B ₀ Ratio of the magnetic field strength at the satellite-to-the-field strength at the satellite.
57	Floating Pt	Satellite-earth-sun angle, Lsep (deg)

Geocentric Equatorial
Inertial-to-Geocentric
Solar Ecliptic transform-
tion matrix.

Satellite position in
celestial inertial (deg)

Velocity vector in
celestial inertial (deg)

Table 9-13 (Continued)

Word No	Form	Data
58	Floating Pt	Satellite-earth-moon angle (deg)
59	Floating Pt	Right ascension
60	Floating Pt	Declination
61	Floating Pt	Longitude
62	Floating Pt	Latitude
63	Floating Pt	GSE _x
64	Floating Pt	GSE _y
65	Floating Pt	GSE _z
66	Floating Pt	Type of data item indicator 1 = regular satellite data item 2 = ascending node crossing data item 3 = North point data item 4 = descending node data item 5 = south point data item 6 = sunlight entrance data item 7 = sunlight exit data item
67	Floating Pt	Date of data (YR MO DA)
68	Floating Pt	Longitude
69	Floating Pt	Latitude
70	Floating Pt	Height above spheroid (km)

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Table 9-13 (Continued)

Word No	Form	Data
71	Floating Pt	Ascending node crossing number (pass number)
72	Floating Pt	Year of data (YR)
73-75	Floating Pt	Zero fill for spares
76	Fixed Point	Check sum of data words in words number 1 - 75
77	Fixed Point	FORTRAN record size indicator (=000113010001 ₈) This indicates a total data word count of 75 ₁₀ words.

Table 9-14
IMP-1 MCE Tape Sentinel Record

Word No	Form	Data
0	Fixed Pt	FORTRAN RECORD SIZE INDICATOR (=000113010001 ₈). This indicates a total data word count of 253 words.
1	Floating Pt	99999999 ₁₀
2 - 75	Floating Pt	irrelevant
76	Fixed Pt	Check sum of data words in words number 1 - 75.
77	Fixed Pt	FORTRAN RECORD SIZE INDICATOR (=000113010001 ₈)

9.5.3.2 Orbit/Attitude Tape—The format and physical characteristics of the orbit/attitude tape are the same as those of the MCE tape described in Section 9.5.1.2. The tape contains the MCE data augmented by attitude information supplied by the housekeeping tape.

FILE 51 RECORD 1 LENGTH 31844BYTES 10/7

1	(7)	70540000	05300000	FFFFF000	42107000	467A0C2E	C2639484	41040700	41040700	C2700000	4102A8E0	412940B9
2	(8)	443EC2D1	442F694C	441A6142	441F89F1	442F694C	44222F54	4416D8EE	C546BD7B	C5349A48	447C2800	412940B9
3	(9)	C046807E	C0344C21	C0282A0F								
4	(10)	C1F13681	4558B33E	45498410	41100000	40000000	40000000	40000000	40000000	40000000	40000000	40000000
5	(10)	C147FE18	44FC8A2E	C0F9491C	C030779D	C0317C53	40F8A3F6	C0E4835A	C0E4835A	C0E4835A	C0E4835A	C0E4835A
6	(2)	41EAD6E6	42E4E10E	41D48FDD	43128549	42259C65	416C79EC	41285E81	4382FDAA	4111567C	4228EDF5	4228EDF5
7	(24)	4291A8B	421E7734	423A8334	428FA3F3	C10317E0	43279A73	C0580000	433875F0	41100000	45A093F0	45A093F0
8	(28)	C2839484	41D5102F	4425D9C8	42300000	42300000	411F3333	C013F7CE	00000000	00000000	40733332	40733332
9	(32)	41126666	40033332	40799999	40133333	BFD4FDF2	BFD4FDF2	BFD4FDF2	BFD4FDF2	C013F7CE	41279599	41279599
10	(36)	41115999	41000000	41000000	E7E861E9	404E4C40	40000000	407A4120	411F3333	C013F7CE	00000000	00000000
11	(40)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2	BFD4FDF2	BFD4FDF2	BFD4FDF2	BFD4FDF2	C013F7CE	C013F7CE
12	(44)	BFD4FDF2	C013F7CE	41279999	40666666	40666666	40333333	40333333	40333333	40333333	BFD4FDF2	BFD4FDF2
13	(48)	C07A6924	411ECCC0	BFD4FDF2								
14	(52)	41115999	41000000	41000000	E7E861E9	404E4C40	40000000	407A4120	411F3333	C013F7CE	00000000	00000000
15	(56)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
16	(60)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
17	(64)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
18	(68)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
19	(72)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
20	(76)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
21	(80)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
22	(84)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
23	(88)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
24	(92)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
25	(96)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
26	(100)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
27	(104)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
28	(108)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
29	(112)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
30	(116)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
31	(120)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
32	(124)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
33	(128)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
34	(132)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
35	(136)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
36	(140)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
37	(144)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
38	(148)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
39	(152)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
40	(156)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
41	(160)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
42	(164)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
43	(168)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
44	(172)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
45	(176)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
46	(180)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
47	(184)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
48	(188)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
49	(192)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
50	(196)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
51	(200)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
52	(204)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
53	(208)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
54	(212)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
55	(216)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
56	(220)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
57	(224)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
58	(228)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
59	(232)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
60	(236)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
61	(240)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
62	(244)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
63	(248)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
64	(252)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						
65	(256)	4129FFFF	4118CCCC	413F7CCE	40133333	BFD4FDF2						

DS02932
file 51
10/7/71

0502922

file 101

5/1/72

INPUT RETRIES
#RECS. TOTAL #

UNDEF. C

READ ERROR SUMMARY
SHORT 0

PERM 0

MAX. SIZE 31844

DATA RECORDS INPUT 22

INPT RECS. 21

FILE	INPT RECS.	DATA RECORDS INPUT	LENGTH	MAX. SIZE	READ ERROR SUMMARY	SHORT	PERM	UNDEF.	INPUT RETRIES
100	21	22	31844	0	0	0	0	0	0
FILE	1.1	RECORD	1	LENGTH	31844	BYTES	5/1		
(	7064000	6382000	FFFFF9B	42A0000	4732FC3B	4295D78D	4215AF04	4215AF04	41C56617
(	4457573	C4427FF	C31C1D93	443704A	C44427FF	C3DA879B	4435CE91	4435CE91	C536B5F4
(	455189E2	C53423E6	C5119EEC	C43207E4	C440916F	44207A98	40C1C50C	40C1C50C	409C476E
(	4219CC45	455F17C6	45404762	41100000	00000000	00000000	00000000	00000000	40FAJ015
(	40371931	40FA0015	40C046F2	40980FF4	40433D5A	00A90368	40B867E7	404C7EAF	404C7EAF
(	4NEADE6A	42E83ABF	4215AF14	4313272F	42285DCE	415A2E08	413A9DCC	43319AE6	411408F8
(	42340582	4220EEC0	422AEC4E	42650000	41E3A396	4251928B	432CEFFD	4314C986	41100000
(	4295D78D	4215B89F	443F0015	42650000	42800000	43FD4FDF2	BFD4FDF2	BFD4FDF2	BFD4FDF2
(	5FD4FDF2	BFD4FDF2	BFD4FDF2	BFD4FDF2	BFD4FDF2	BFD4FDF2	BFD4FDF2	BFD4FDF2	BFD4FDF2
(	40600000	00000000	00000000	00000000	00000000	00000000	032FC8BD	41146666	40C66666
(	40799999	40599999	40599999	40599999	40599999	40599999	40599999	40599999	40599999
(	4121FFFF	411F9999	4143FFFF	4143FFFF	4143FFFF	4143FFFF	404CC000	404CC000	40266666
(	40E66665	4115FFFF	4115FFFF	4115FFFF	4115FFFF	4115FFFF	404CC000	404CC000	404EE940
(	40133333	40133333	411F3333	411A6666	41453332	00000000	C34BD44B	404EE940	40404040
(	40133333	40133333	411F3333	411A6666	41453332	00000000	C34BD44B	404EE940	40404040

(56)	438FF0AF	411A6666	41239999	4118FFFF	41185999	4 F59998	4086CCCC	40733332	403FFFFF	40333333
(57)	40EFFFFF	40133333	3FC0CCCC	3FC0CCCC	411F3333	411D3333	4144CCCC	00000000	C348D448	4060E940
(58)	40474040	00000011	00000011	4176A3D1	425DC000	42600000	C24370A3	442621E0	44312F40	449FFFF60
(59)	445E9F66	3EDC85AA	8E52CE6C	3E8DE6D1	3E48E157	3ECF2B95	42718F41	409018E3	00000014	000AFE75
(60)	35FDD538	41305A91	C206C63C	41119F3E	41161339	42648750	411E3D53	41466666	3FD4FDF2	00000001
(61)	000AFE75	032FF928	4135933C	C2E37680	4030C25C	412CCAA0	426CA1C1	4016CACA	41466666	8FD4EDF2
(62)	00000011	00000011	00000011	00000011	00000011	00000011	00000011	00000011	00000011	00000011
(63)	41453332	00000000	00000000	000AFE75	03377503	412D3F54	4025168E	426E8D8D	40118CEB	41453332
(64)	40173051	4144CCCC	8F6A7EF9	00000001	000AFE75	03309CE5	41318D38	C2D66640	40372237	41285AFE
(65)	426E925B	3F8188D5	4144CCCC	8F6A7EF9	00000001	000AFE75	03309CE5	41318D38	C2D66640	40372237
(66)	412A9D0E	426BFF3E	401849FF	4144CCCC	8F6A7EF9	00000001	000AFE75	03309CE5	41318D38	C2D66640
(67)	401D2299	412C9F65	426FD295	40118D42	4144CCCC	8F6A7EF9	00000001	000AFE75	03309CE5	41318D38
(68)	C2E5DD01	40349F29	412B8843	426D2A81	4018D5DE	41459999	8FD4FDF2	00000001	000AFE75	03313CBF
(69)	412C06D4	C2E539B0	414D12C0	412867C8	426D85CA	3FC84DD4	41455959	8FD4FDF2	00000001	000AFE75
(70)	03316482	413047F6	C20B85F8	40426864	412A9E88	426F5E98	41466CCC	8FD4FDF2	00000001	000AFE75
(71)	000AFE75	03318CA4	41385ADC	C20F4A40	40320C70	412B3F10	426E37CE	3FE8B1F0	4146CCCC	8FD4FDF2
(72)	00000011	00000011	00000011	00000011	00000011	00000011	00000011	00000011	00000011	00000011
(73)	4142CCCC	8FD4FDF2	00000001	000AFE75	0332947C	41255F8B	C2EDB1A9	40385E07	412948D1	426E8856
(74)	4288EC57	426CC2E8	401ED366	41466666	8FD4FDF2	00000001	000AFE75	03325461	4137D1A0	C2E302E1
(75)	40AF0809	4129FFD7	4265C8CE	40250DAE	41466666	8FD4FDF2	00000001	000AFE75	03327C54	41339F0E
(76)	C2E516C1	4010029E	4129B328	427056A5	40119F1D	41439999	8FD4FDF2	00000001	000AFE75	0332A446
(77)	412F244C	C2DC1840	4035BE21	412A5948	426E6E17	3ED23E45	41435959	8FD4FDF2	00000001	000AFE75
(78)	FFFFF9B8	427A0000	47332E28	429746FF	42172CCA	C28E3ADE	41DFE231	41304DCE	4459E68C	C4437848
(79)	C342ME11	443837C8	C4437848	C410E2BE	4438E401	C5518A72	C536851E	C545C5BE	C5518A72	C534157D
(80)	C511C6C3	C42FF4E9	C4437848	44235E9B	40C1C754	409C4947	4043C4EF	421A907F	40190877	455F19C8
(81)	454D52BD	411A6666	411A6666	411A6666	411A6666	411A6666	411A6666	411A6666	411A6666	411A6666
(82)	42172CCA	409B11C4	40433E23	C0A90561	40806650	404C7DFF	00000000	C965D89D	40EAD56A	42EA84C4
(83)	4225A210	C2C5ABC	41F3A67F	42582D56	432E5M4	43102FCA	41100000	45AFE750	429746FF	42173680
(84)	444 E9B2	42650000	42480000	40592929	C013E7CF	C013E7CF	C013E7CF	3E666666	40C66666	40733332
(85)	4135FFFF	40333333	40199999	3FC0CCCC	00000000	00000000	00000000	00000000	00000000	00000000
(86)	4135E341	E7E851F9	40444040	00000001	0332E7AF	406CCCCC	C013E7CF	8ED4FDF2	4124CCCC	4126CCCC
(87)	40333332	407FFFFF	40666666	40333333	40C7C1C9	D5404040	00000000	0332E7AF	40733332	3E666666
(88)	C013F7CE	00000007	E207C5C3	40C7C1C9	D5404040	00000000	00000000	0332E7AF	40733332	3E666666
(89)	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE
(90)	C013F7CE	8FD4FDF2	00000001	00000001	00000001	00000001	00000001	00000001	00000001	00000001
(91)	3E666666	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(92)	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE
(93)	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE
(94)	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE
(95)	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE
(96)	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE
(97)	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE
(98)	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE
(99)	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE	41266666	C013E7CE

FIRST TWELVE HOURS

LAST TWELVE HOURS

#	ORBIT	FILE	RECORDS	POINTS	FIRST TWELVE HOURS			LAST TWELVE HOURS				
					APPROX. START	STOP	HMMSS	APPROX. START	STOP	HMMSS		
					YYMMDD	HMMSS	YYMMDD	HMMSS	YYMMDD	HMMSS		
1)	1	1	240	3919	710314	12055	710314	50838	710317	84010	710317	191149
2)	2	2	347	6553	710317	223044	710318	90528	710321	115607	710321	212352
3)	3	3	353	6694	710322	32455	710322	121254	710326	152138	710326	32135
4)	4	4	422	8216	710326	33858	710326	154047	710330	190958	710330	70945
5)	5	5	420	6980	710330	72637	710330	192746	710402	224602	710403	104549
6)	6	6	402	6559	710403	120810	710403	231527	710407	24447	710407	144151
7)	7	7	418	8101	710407	150704	710408	30935	710411	62548	710411	182545
8)	8	8	392	7608	710411	190741	710412	71031	710415	104104	710415	222551
9)	9	9	405	7818	710415	222135	710416	101149	710420	132641	710420	12628
10)	10	10	416	8158	710420	20631	710420	140638	710423	171116	710424	51103
11)	11	11	420	8336	710424	60647	710424	180735	710427	205308	710428	85255
12)	12	12	421	8332	710428	91251	710428	211603	710502	1310	710502	120244
13)	13	13	421	8292	710502	125240	710503	5247	710506	32259	710506	152246
14)	14	14	413	8172	710506	161243	710507	41513	710510	73613	710510	193559
15)	15	15	404	7994	710510	194745	710511	74854	710514	104257	710514	224254
16)	16	16	417	8078	710514	231822	710515	119330	710518	132449	710519	12456
17)	17	17	421	8289	710519	20925	710519	141135	710522	180458	710523	60445
18)	18	18	417	8206	710523	62259	710523	182205	710526	213656	710527	93643
19)	19	19	423	8389	710527	100248	710527	282035	710531	3449	710531	123446
20)	20	20	422	8371	710531	131845	710601	12115	710604	43201	710604	163148
21)	21	21	406	8082	710604	163016	710605	43104	710608	75042	710608	195038
22)	22	22	420	8348	710608	195322	710609	75431	710612	111956	710612	231943
23)	23	23	421	8336	710612	231527	710613	111514	710616	142945	710617	22942
24)	24	24	422	8304	710617	24522	710617	144610	710620	181744	710621	61741
25)	25	25	422	8377	710621	64052	710621	184918	710624	220239	710625	100246
26)	26	26	416	8034	710625	100540	710625	220649	710629	5951	710629	125948
27)	27	27	423	8378	710629	132441	710630	12509	710703	50838	710703	170845
28)	28	28	423	8417	710703	170450	710704	50437	710707	80246	710707	200243
29)	29	29	419	8314	710707	200810	710708	60817	710711	122004	710712	1951
30)	30	30	422	8245	710712	1515	710712	121704	710715	151858	710716	31845
31)	31	31	422	8383	710716	33821	710716	153849	710719	185340	710720	65337
32)	32	32	419	8333	710720	70756	710720	191026	710723	214951	710724	94948
33)	33	33	424	8418	710724	95536	710724	219826	710728	13811	710728	133758
34)	34	34	408	8062	710728	133342	710729	13531	710801	54658	710801	174705
35)	35	35	422	8304	710801	181107	710802	61135	710805	82850	710805	202847
36)	36	36	423	8338	710805	202421	710806	82651	710809	111102	710809	231049
37)	37	37	400	7775	710809	232640	710810	112951	710813	152557	710814	32544
38)	38	38	422	8381	710814	34844	710814	155115	710817	191944	710818	71931
39)	39	39	422	8361	710818	71738	710818	191746	710821	223744	710822	103751
40)	40	40	420	8110	710822	112352	710822	232349	710826	25847	710826	145854
41)	41	41	422	8369	710826	145945	710827	25932	710830	55741	710830	175738
42)	42	42	416	8120	710830	175920	710831	60029	710903	100405	710903	220412
43)	43	43	423	8372	710903	220544	710904	106552	710907	131900	710908	11847
44)	44	44	422	8406	710908	14106	710908	134053	710911	165950	710912	45936
45)	45	45	422	8374	710912	50048	710912	170318	710915	195742	710916	75739
46)	46	46	422	8382	710916	83854	710916	204043	710919	235149	710920	115146
47)	47	47	419	8052	710920	114741	710920	234849	710924	25144	710924	145141
48)	48	48	416	8178	710924	145638	710925	25837	710928	64653	710928	184649
49)	49	49	423	8409	710928	184203	710929	64210	711002	91344	711002	211351
50)	50	50	423	8412	711002	213651	711003	93922	711006	141257	711007	21254

ALL DONE.

IMP-I TAPE REPORT FOR TAPE TD5764

#	ORBIT	FILE	RECORDS	POINTS	FIRST TWELVE HOURS			LAST TWELVE HOURS					
					APPROX. START YYMMDD	START HHMMSS	STOP YYMMDD	APPROX. START YYMMDD	START HHMMSS	STOP YYMMDD			
1)	51	1	422	8384	711007	21335	711007	141301	171353	711010	171353	711011	51340
2)	52	2	402	7973	711011	51350	711011	171459	222706	711014	222706	711015	91843
3)	55	3	423	8366	711023	1648C1	711024	44951	74049	711027	74049	711027	194036
4)	56	4	423	8415	711027	200256	711028	80526	115442	711031	115442	711031	235348
5)	57	5	423	8393	711031	2358C3	711101	120034	151443	711104	151443	711105	31430
6)	58	6	421	8208	711105	31055	711105	151143	191944	711108	191944	711105	71941
7)	59	7	421	8336	711109	82458	711109	202556	2100	711113	2100	711113	122046
8)	60	8	419	8229	711113	121610	711114	1658	25804	711117	25804	711117	145750
9)	61	9	424	8411	711117	145254	711118	25544	53751	711121	53751	711121	173748
10)	62	10	415	8057	711121	175815	711122	55802	93806	711125	93806	711125	213753
11)	63	11	420	8176	711125	214533	711126	94641	13942	711129	13942	711130	13929
12)	64	12	419	8116	711130	13554	711130	133754	172254	711203	172254	711204	52251
13)	65	13	350	7072	711204	51846	711204	171031	220C59	711207	220C59	711207	100056
14)	66	14	419	8128	711208	55022	711208	215049	234148	711211	234148	711212	114145
15)	67	15	350	7736	711212	113638	711212	233908	41345	711216	41345	711216	161341
16)	68	16	422	8359	711216	160916	711217	40923	64258	711220	64258	711220	184245
17)	69	17	387	7120	711220	150322	711221	70248	105245	711224	105245	711224	224147
18)	70	18	415	8040	711224	223722	711225	104033	142543	711228	142543	711228	22540
19)	71	19	401	7388	711229	30856	711229	150834	184017	720101	184017	720102	62453
20)	72	20	418	8036	720102	64024	720102	183210	211052	720105	211052	720106	91038
21)	73	21	422	8323	720106	50542	720106	210630	210459	720109	210459	720110	90446
22)	74	22	422	8337	720110	90132	720110	210139	35642	720114	35642	720114	155638
23)	75	23	422	8360	720114	161848	720115	42037	80548	720118	80548	720118	200545
24)	76	24	422	8340	720118	200115	720119	80146	112245	720122	112245	720122	232242
25)	77	25	404	7722	720122	231857	720123	111823	154448	720126	154448	720127	34445
26)	78	26	415	7913	720127	34040	720127	154026	231538	720130	180348	720131	60345
27)	79	27	402	7576	720131	55940	720131	165116	4654	720203	231538	720204	111545
28)	80	28	422	8407	720204	110947	720204	230934	4654	720208	4654	720208	124641
29)	81	29	403	7925	720208	130840	720209	10847	44952	720212	44952	720212	164939
30)	82	30	423	8373	720212	164442	720213	44713	71643	720216	71643	720216	191640
31)	83	31	407	7823	720216	191255	720217	71423	120602	720220	120602	720221	549
32)	84	32	422	8206	720220	235647	720221	115857	142057	720224	142057	720225	22044
33)	85	33	422	8321	720225	25358	720225	145425	205542	720228	205542	720229	85939
34)	86	34	421	8303	720229	85513	720229	205642	223748	720303	223748	720304	103734
35)	87	35	424	8438	720304	105021	720304	225252	21958	720308	21958	720308	141945
36)	88	36	423	8356	720308	141550	720309	21719	55155	720312	55155	720312	175142
37)	89	37	393	7605	720312	174747	720313	54652	104156	720316	104156	720316	224153
38)	90	38	421	8171	720316	223747	720317	103916	125306	720320	125306	720321	5252
39)	91	39	407	8084	720321	22211	720321	133323	161510	720324	161510	720325	41202
40)	92	40	345	6496	720325	54314	720325	172405	214017	720328	214017	720329	93943
41)	93	41	394	7449	720329	93507	720329	213738	5938	720402	5938	720402	113857
42)	94	42	416	8259	720402	132508	720403	10103	30946	720406	30946	720406	150953
43)	95	43	393	7826	720406	165716	720407	43544	80028	720410	80028	720410	184049
44)	96	44	417	8180	720410	201707	720411	80235	111502	720414	111502	720414	231449
45)	97	45	415	8000	720415	4914	720415	123715	143545	720418	143545	720418	23541
46)	98	46	394	7815	720419	41615	720419	155514	212910	720422	212910	720422	92856
47)	99	47	403	8020	720423	52315	720423	212326	14441	720426	14441	720427	54940
48)	100	48	417	8285	720427	112608	720427	231814	14441	720501	14441	720501	134053

ALL DONE.

10/14/73
L 202

IMP-I TAPE REPORT FOR TAPE T05761

#	CRBIT	FILE	RECORDS	PCINTS	FIRST TWELVE HOURS				LAST TWELVE HOURS			
					APPROX. START YYMMDD	HHMMSS	STOP YYMMDD	HHMMSS	APPROX. START YYMMDD	HHMMSS	STOP YYMMDD	HHMMSS
1)	101	1	415	8247	720501	145106	720502	22336	720505	61638	720505	181635
2)	102	2	419	8325	720505	184837	720506	63932	720509	92950	720509	212947
3)	103	3	423	8322	720509	212542	720510	92812	720513	125955	720514	5952
4)	104	4	422	8414	720514	5111	720514	125037	720517	170548	720518	50545
5)	105	5	422	8286	720518	50129	720518	170308	720521	201658	720522	81645
6)	106	6	419	8310	720522	83337	720522	203303	720526	4450	720526	124447
7)	107	7	405	7972	720526	124041	720527	4352	720530	34952	720530	154938
8)	108	8	413	8133	720530	154604	720531	34611	720533	74946	720533	194943
9)	109	9	419	8156	720603	194213	720604	74200	720607	120502	720608	448
10)	110	10	421	8335	720608	155	720608	120425	720611	132950	720612	12937
11)	111	11	423	8369	720612	12501	720612	132630	720615	173939	720616	53936
12)	112	12	422	8378	720616	55922	720616	175848	720619	220508	720620	100454
13)	113	13	424	8398	720620	95958	720620	220228	720624	3402	720624	123348
14)	114	14	418	8054	720624	123642	720625	3913	720628	50539	720628	170526
15)	115	15	422	8294	720628	170045	720629	50259	720702	71506	720702	191453
16)	116	16	394	7782	720702	151037	720703	71125	720706	124359	720707	4356
17)	117	17	409	7643	720707	3951	720707	124039	720710	142855	720711	22852
18)	118	18	419	8081	720711	23825	720711	144014	720714	185748	720715	65735
19)	119	19	421	8348	720715	65922	720715	185306	720718	221507	720719	101504
20)	120	20	423	8429	720719	101332	720719	221633	720723	21745	720723	141732
21)	121	21	379	7013	720723	142512	720724	22919	720727	52450	720727	172447
22)	122	22	421	8323	720727	171555	720728	51825	720731	91005	720731	210952
23)	123	23	415	8033	720731	210957	720801	90726	720804	133150	720805	13146
24)	124	24	421	7964	720805	12051	720805	132038	720808	154745	720809	34753
25)	125	25	399	7334	720809	35655	720809	155540	720812	200503	720813	80450
26)	126	26	421	8258	720813	80034	720813	200021	720816	230255	720817	110242
27)	127	27	416	7951	720817	120738	720818	826	720821	31142	720821	151149
28)	128	28	423	8273	720821	150247	720822	30517	720825	70954	720825	190930
29)	129	29	374	6952	720825	190525	720826	70431	720829	105955	720829	225942
30)	130	30	407	7678	720829	225040	720830	105148	720902	133052	720903	13048
31)	131	31	422	8327	720903	14507	720903	134738	720906	174201	720907	54147
32)	132	32	394	7703	720907	53722	720907	173739	720910	222128	720911	84750
33)	133	33	409	7715	720911	84355	720911	204342	720915	4940	720915	124947
34)	134	34	419	7990	720915	124045	720916	4133	720919	35056	720919	155043
35)	135	35	422	8318	720919	154546	720920	34655	720923	90003	720923	205949
36)	136	36	421	8191	720923	205635	720924	85845	720927	112146	720927	232133
37)	137	37	422	8233	720927	234048	720928	114319	720993	152505	720994	32441
38)	138	38	416	7981	720994	32253	721002	152448	721005	191344	721006	71331
39)	141	39	416	8247	721014	141720	721015	21920	721018	54951	721018	174948
40)	142	40	397	7788	721018	174644	721019	54914	721022	101844	721022	221841
41)	143	41	416	7893	721022	223016	721023	102942	721026	140054	721027	20051
42)	144	42	419	7955	721027	156446	721027	135635	721030	172238	721031	52245
43)	145	43	421	8283	721031	55721	721031	175728	721103	203955	721104	83942
44)	146	44	422	8333	721104	83019	721104	203107	721108	1456	721108	121453
45)	147	45	424	8413	721108	121048	721109	1318	721112	40457	721112	160444
46)	148	46	420	8357	721112	160048	721113	40319	721116	62357	721116	182343
47)	149	47	417	8003	721116	184441	721117	64509	721120	111945	721120	231942
48)	150	48	422	8352	721120	231516	721121	111543	721124	150844	721125	30841

ALL DONE.

IMP-I DATA FOR ORBIT 53
YEAR= 1971. DAY= 288. HHMMSS= 133307 (YYMDD=711015. SEC=48787.2)

EPHEMERIS DATA=

286.000	0.487872E 08	88.6473	37.0946	160.262	26.0739	12.4286	63957.5	18795.6	35664.7
49651.9	18795.6	44691.5	41712.7	-147509.	-375427.	-16914.7	-147509.	-371478.	56880.0
36298.0	-35846.8	38574.9	0.172184E 07	-0.677249E 07	-0.489144E 08	-43.4342	-80.4888	44842.4	16630.4
1.00000	0.0	0.0	0.0	0.980666	0.195691	0.0	-0.195691	0.980666	0.348472E-01
-0.916899	-0.397595	0.999393	0.319708E-01	0.138635E-01	0.0	-0.397837	0.917456	315.358	37.0946
350.471	26.7960	2.96752	12.5761	39.2264	2.50349	120.031	131.182	7.40482	7.40482
57.5536	-81.8697	-26.8443	-28.0287	-5.69960	1.00000	711015.	88.6473	37.1131	57587.1
53.0000	71.0000								

***** BAND-PASS FILTERS *****

PEAK	DET	1	2	3	4	5	6	7	8	9	10	11	12	AC	X/Y	AC	Z	AC	SUB	COM	POS	SUB	DESCR	PTOR	SPEC	MSEC
.1	.18	.31	.54	1.0	1.8	3.1	5.4	10	18	31	54	100	190	2.52	1.90	1.10	1.10	1.90	1.10	8	7	ANT	XY/Z	1	48788454	
4.17	0.15	2.07	2.87	2.90	2.37	2.87	2.32	2.55	1.80	1.82	0.97	0.85	2.52	0.32	2.30	1.90	0.08	0.32	0.08	7	7	SPEC	GAIN	0	48793567	
4.17	0.05	1.72	2.37	2.90	2.35	2.15	1.70	1.62	1.20	0.92	0.57	0.32	2.30	1.90	0.08	0.32	0.08	0.32	0.08	6	6	AC	GAIN	1	48798681	
4.17	0.07	1.92	2.82	2.82	2.95	2.82	2.55	3.20	3.27	3.60	3.55	3.17	2.57	1.87	0.08	0.08	0.08	0.08	0.08	5	5	+20V	MON	0	48803794	

APP40 (TEMP.) ALP RA DEC SUN TIME SPIN EARTH INT EARTH WIDTH
6.08 87.750 96.300 -67.400 19.778 12.601 40.999 48.959

VXBM MSEC EX PHIX SDX EY PH1Y SDY APP35 CH12 AVG BIT RATE
1.0931E-04 6.9150E-05 -5.2765E-05 -6.6202E-05 8.6982E-05 3.2265E-02 19.69

YYMDD	MSEC	EX	PHIX	SDX	EY	PH1Y	SDY	APP35	CH12	AVG	BIT	RATE
711015	48791650	19.5143	23.9698	2.3691	7.2311	28.7693	1.1051	3.2250	0.3250	0.3250	1	
711015	48801876	17.6351	25.2630	4.0935	8.3383	23.0500	1.5124	3.2250	0.3250	0.3250	1	
711015	48812103	17.5955	25.7406	3.9741	9.4323	22.7751	1.6984	3.4750	0.3000	0.3000	1	
711015	48822329	22.8734	23.3670	1.9271	8.2235	26.1841	1.5180	3.4750	0.3000	0.3000	1	
711015	48832556	18.9478	22.7761	2.9966	8.4999	23.9045	1.4409	3.6250	0.2500	0.2500	1	
711015	48842783	16.4562	26.2135	3.9903	6.5024	31.7253	1.0774	3.6250	0.2500	0.2500	1	
711015	48853009	9.3669	21.4985	3.2850	5.8655	34.6228	1.0414	3.6250	0.3000	0.3000	1	
711015	48873462	21.6864	22.6519	2.2446	7.7729	28.8816	1.5248	3.1750	0.3250	0.3250	1	
711015	48883689	18.5408	8.8527	2.7650	7.8377	23.8687	1.2056	3.1750	0.3250	0.3250	1	
711015	48893915	17.9052	21.8860	2.8136	7.3558	8.8892	0.9268	3.5500	0.2750	0.2750	1	
711015	48914368	11.8831	50.4350	2.7207	8.9718	28.1973	1.1045	3.6250	0.2750	0.2750	1	
711015	48924595	16.8314	27.1196	2.1168	5.8656	24.1101	1.5444	3.6250	0.2750	0.2750	1	
711015	48934821	16.8655	5.3930	2.9798	6.8053	28.6680	1.3948	3.6250	0.3500	0.3500	1	
711015	48945048	14.9861	26.9422	3.0695	6.0153	25.9666	1.2193	3.6250	0.3500	0.3500	1	
711015	48955274	15.7874	28.5965	2.2043	5.1867	35.2603	0.9752	*****	0.3000	0.3000	1	
711015	48965501	14.2474	23.3959	2.9323	5.9820	25.9983	1.1954	*****	0.3000	0.3000	1	
711015	48975727	13.8814	32.4272	3.5062	6.9569	24.4373	1.4408	3.4500	0.2750	0.2750	1	
711015	48985954	20.9436	23.1929	2.5255	6.2474	29.1907	1.4345	3.4500	0.2750	0.2750	1	

IMP-I DATA FOR ORBIT 53
YEAR= 1971. DAY= 288. HHMMSS= 133631 (YYMMDD=711015. SEC=48991.7)

EPHEMERIS DATA=

288.000	0.489917E-08	88.1397	37.0506	159.809	26.0654	12.5273	64474.7	18787.0	36198.4
49937.0	45317.2	-147509.	41837.6	-375427.	-16914.7	-147509.	-147509.	-371415.	57291.5
36831.1	-35935.3	38847.3	0.172188E-07	-0.677266E-07	-0.49156E-08	43.3508	-80.3687	448953.	166296.
1.00000	0.0	0.0	0.0	0.980448	0.196777	0.0	-0.196777	0.980448	0.348472E-01
-0.918899	-0.397595	0.999393	0.319708E-01	0.138635E-01	0.0	-0.397837	0.917456	315.705	37.0506
350.667	26.7024	2.95062	12.6748	38.2724	2.50054	120.011	131.376	138.504	7.47063
56.6991	-81.8697	-26.0224	-27.5326	-5.43743	1.00000	711015.	88.1397	37.0688	58104.3
53.0000	71.0000								

***** BAND-PASS FILTERS *****

1	2	3	4	5	6	7	8	9	10	11	12								
PEAK	.1	.18	.31	.54	1.0	1.8	3.1	5.4	10	18	31	54	100	2.35	3.10	-0.05			
DET	.18	.31	.54	1.0	1.8	3.1	5.4	10	18	31	54	100	2.35	3.10	-0.05				
1.22	0.05	1.75	2.65	3.25	3.07	2.60	2.17	2.75	3.25	3.20	3.22	2.90	2.60	2.20	2.20	3.72	15	C.M. -Y	1 48992985
3.82	0.02	1.77	2.22	2.72	2.40	2.15	1.65	1.55	1.02	0.72	0.47	0.25	2.60	2.62	2.15	3.17	14	C.M. +Z	0 48998098
3.17	0.05	1.85	2.37	2.75	3.00	3.02	2.02	2.30	1.82	1.57	0.95	0.90	2.62	2.62	2.15	3.17	14	C.M. +Z	1 49003211
3.37	0.02	1.77	2.42	2.67	2.25	2.07	1.62	1.52	1.05	0.75	0.52	0.27	2.47	1.45	3.30	13	C.M. -Z	0 49008325	

APP40 (TEMP.) ALP 68.250 96.300 -67.400
4.433 12.602 40.999 40.999
EARTH INT EARTH WIDTH
3.2303E-05 3.2303E-02 19.72

1.0791E-04 6.8019E-05 -5.1193E-05 -6.6305E-05 8.5131E-05 3.2303E-02 19.72

YXMMDD MSEC EX PHIX SDX EY PHIY SDY APP35 CH12 AVG BIT RATE

711015	48996181	14.8608	28.7611	3.1563	6.4383	24.7556	1.0739	3.5750	0.2500	1
711015	49006407	15.8745	24.7300	2.3796	4.2434	33.7278	0.8995	3.5750	0.2500	1
711015	49016634	9.4295	22.2545	1.9753	3.5800	44.0405	0.6809	3.6000	0.3250	1
711015	49026860	8.8160	64.1530	2.1684	6.0330	24.7859	0.5749	3.6000	0.3250	1
711015	49037087	14.9664	30.0371	1.4316	4.5379	29.5266	1.0150	3.1250	0.3250	1
711015	49047313	11.6067	34.6436	2.3638	3.5676	29.5378	0.8530	3.1250	0.3250	1
711015	49057540	9.8021	37.8490	2.4958	3.1322	9.4033	0.7689	3.4250	0.2750	1
711015	49067766	9.7481	33.3840	2.3816	2.4877	53.7222	0.4928	3.4250	0.2750	1
711015	49077993	8.7806	78.4721	1.7901	4.0135	26.1943	0.7289	3.5500	0.2750	1
711015	49088219	13.1517	35.2785	1.5431	2.9043	28.0310	1.0277	3.5500	0.2750	1
711015	49098446	12.3254	40.0620	2.2707	3.3891	30.2991	1.0141	3.5000	0.3250	1
711015	49108672	10.2421	32.7155	2.6442	3.2284	29.3521	1.0185	3.5000	0.3250	1
711015	49118899	10.5408	35.3586	2.2722	2.7122	55.2659	0.5302	3.1000	0.2750	1
711015	49129125	8.6711	36.5808	2.3250	2.8294	32.2136	0.8916	3.1000	0.2750	1
711015	49139352	8.1206	64.6652	2.4234	3.6409	28.8601	0.8907	3.4000	0.2750	1
711015	49149579	14.5702	34.9024	0.9444	3.4176	33.2747	1.0840	3.4000	0.2750	1
711015	49159805	10.2719	29.0949	2.8801	3.7643	29.9099	1.0016	3.5500	0.2500	1
711015	49170032	12.1912	31.4343	2.1747	3.3207	43.0176	0.8095	3.5500	0.2500	1
711015	49180258	9.2650	26.0247	1.7221	3.2332	43.8105	0.6702	3.6000	0.3000	1

11/16/73

#	ORBIT	FILE	RECORDS	POINTS	FIRST TWELVE HOURS				LAST TWELVE HOURS			
					APPROX. START YYMMDD	HHMMSS	STOP YYMMDD	HHMMSS	APPROX. START YYMMDD	HHMMSS	STOP YYMMDD	HHMMSS
1)	1	1	240	3919	710314	12055	710314	50838	710317	84010	710317	191149
2)	2	3	347	6553	710317	223044	710318	90528	710321	115607	710321	212352
3)	3	3	353	6694	710322	32455	710322	121254	710326	152138	710326	32135
4)	4	4	422	8216	710326	33858	710326	154047	710329	190959	710330	70945
5)	5	5	420	6980	710330	72637	710330	192746	710402	224602	710403	104549
6)	6	6	402	6559	710403	120810	710403	231527	710407	24447	710407	144151
7)	7	7	418	8101	710407	150704	710408	30935	710411	62548	710411	182545
8)	8	8	392	7608	710411	190741	710412	71031	710415	104104	710415	222551
9)	9	9	405	7818	710415	222135	710416	101149	710419	132641	710420	126258
10)	10	10	416	8159	710420	20631	710420	140638	710423	171116	710424	51103
11)	11	11	420	8336	710424	60647	710424	180735	710427	205308	710428	85255
12)	12	12	421	8332	710428	91251	710503	5247	710506	32259	710506	152246
13)	13	13	421	8292	710502	125240	710507	41513	710510	73613	710510	193559
14)	14	14	413	8172	710506	161243	710511	74854	710514	104257	710514	224254
15)	15	15	404	7994	710510	194745	710515	111930	710518	132449	710519	12455
16)	16	16	417	8078	710514	231822	710519	141135	710522	180458	710523	60445
17)	17	17	421	8299	710519	20925	710523	102205	710526	213656	710527	93643
18)	18	18	417	8206	710523	62259	710527	220235	710531	3449	710531	123446
19)	19	19	423	8389	710527	100248	710621	184018	710624	220239	710625	100246
20)	20	20	422	8371	710531	131845	710601	12115	710604	43201	710604	163148
21)	21	21	406	8082	710604	163016	710605	43104	710608	75042	710608	195038
22)	22	22	420	8348	710608	195322	710609	75431	710612	111956	710612	231943
23)	23	23	421	8336	710612	231527	710613	111514	710616	142945	710617	22942
24)	24	24	422	8304	710617	24522	710617	144610	710620	161744	710621	61741
25)	25	25	422	8377	710621	64052	710625	184018	710628	220239	710629	100246
26)	26	26	416	8034	710625	109540	710625	220649	710629	5951	710629	125948
27)	27	27	423	8378	710629	132441	710630	12509	710703	50838	710703	170845
28)	28	28	423	8417	710703	170450	710704	50437	710707	80246	710707	208243
29)	29	29	419	8314	710707	200810	710708	80817	710711	122004	710712	1951
30)	30	30	422	8245	710712	1515	710712	121704	710715	151058	710716	31045
31)	31	31	422	8383	710716	33821	710716	153849	710719	185340	710720	65337
32)	32	32	419	8333	710720	70756	710720	191026	710723	214951	710724	94948
33)	33	33	424	8418	710724	95536	710724	215826	710728	13811	710728	133758
34)	34	34	408	8062	710728	133342	710729	13531	710801	54659	710801	174706
35)	35	35	422	8304	710801	181107	710802	61135	710805	82850	710805	202847
36)	36	36	423	8338	710805	202421	710806	82651	710809	111102	710809	231049
37)	37	37	400	7775	710809	232640	710810	112951	710813	152557	710814	32544
38)	38	38	422	8381	710814	34844	710814	155115	710817	191944	710818	71931
39)	39	39	422	8361	710818	71738	710818	191746	710821	223744	710822	103751
40)	40	40	420	8110	710822	112362	710822	232349	710826	25647	710826	145854
41)	41	41	422	8369	710826	145945	710827	25932	710830	55741	710830	175738
42)	42	42	416	8120	710830	175920	710831	60929	710903	109405	710903	220412
43)	43	43	423	8372	710903	220544	710904	100652	710907	131900	710908	11847
44)	44	44	422	8406	710908	14106	710908	134053	710911	165950	710912	45936
45)	45	45	422	8374	710912	50048	710912	170318	710915	195742	710916	75739
46)	46	46	422	8382	710916	83854	710916	204043	710919	235149	710920	115146
47)	47	47	419	8052	710920	114741	710920	234849	710924	25144	710924	145141
48)	48	48	416	8178	710924	145638	710925	25837	710928	64653	710928	184649
49)	49	49	423	8409	710928	184203	710929	64210	711002	91344	711002	211351
50)	50	50	423	8412	711002	213651	711003	93922	711006	141257	711007	21254

ALL DONE.

IEF285I SYS73348.T092950.RV000.YZJRJWM2.R0000154 DELETED
IEF285I VOL SER NOS=Y1520
IEF285I SYS73348.T092950.SV000.YZJRJWM2.R0000155 SYSCUT
IEF285I VOL SER NOS=K35CR2

IEF280E K 004.Y1520.YZJRJWM2.TEST1
IEF373I STEP /TEST1 / START 73348.1000
IEF374I STEP /TEST1 / STOP 73348.1009 CPU OMIN 12.05SEC MAIN 82K LCS OK
STEP 01 RETURN CODE = 0000

IO IN SECS. DISK= .55, DRUM= 2.06, TAPE= 11.43, CELL= .00, OTHR= .23
STEP TIME = .43 MINS=(CPU= .20, IO= .23)
PLEASE DECREASE THE REGION PARAMETER

IEF375I JOB /YZJRJWM2/ START 73348.1000
IEF376I JOB /YZJRJWM2/ STOP 73348.1009 CPU OMIN 12.05SEC
- SYSTEM=NVT-20 (07-11-72) K3
- JCE 002A

IO IN SECS. DISK= .55, DRUM= 2.06, TAPE= 11.43, CELL= .00, OTHR= .08
TOTAL TIME = .43 MINS=(CPU= .20, IO= .23)
TIME=10.09.10.68 DATE=12-14-73

THERE WERE 01 TAPES MOUNTED FOR THIS JOB. TAPE MOUNT CHARGE WAS 00.0 MINUTES.

Z 717

3/14/71 - 10/17/71

RECORD 1 OF FILE
LENGTH = 31844 BYTES

3/14/71

06W932

76640000	03A90999	FFFFF	42950000	4649329C	429F60E7	4216464E	429640E9	42122768	42106190
45178F28	451308CF	440CF300	440CF300	451308CF	C48A4F89	44ADCE24	C55C0992	C52397CB	C46F3701
C86C0992	C61A3811	C6190ADB	461284ED	44B28F31	40FC7000	40FC7000	C01D3438	BFCAA2A8	C27F898A
C1A8A237	456F1261	41100000	00000000	00000000	00000000	00000000	40D79D4F	C08A0237	00000000
C18A0516	4007504F	40F0E950	C01D60AD	BF680310	4020A850	40E90037	406508DA	00000000	C065089D
ACEADE6A	4314E5EA	421C864E	43164A58	4218A8B9	41224EF1	4210D61A	41A5207D	4119495C	42241AE5
428C7462	42946662	42188428	42A26630	C120A300	4168A913	41732F71	4137215C	41100000	45AD64AD
428F5DE7	421C4906	451600D2	41100000	42470000	BF6A7EF9	BF6A7EF9	BF6A7EF9	BF6A7EF9	BF6A7EF9
BF6A7EF9									
00000000	00000008	C105E340	E7E861E9	40404040	00000000	0049A6D7	41246666	41133333	40CC6666
01113333	40ECCCCC								
C4428F58	41179999	BF6A7EF9	00000007	E2D7C5C3	40C7C1C9	D5404040	00000001	004996BC	4120CCCC
41203333	41493333	40F33333							
4C133333	3FC66666	4118CCCC	BF6A7EF9	00000006	C1C340C7	C1C340C7	C1C340C7	40404040	00000000
0C9E6A1	4120CCCC	4112CCCC	40ECCCCC						
403FFFFF	40266666	3FC66666	3FC66666	40C66666	40C66666	40C66666	40C66666	40C66666	40C66666
AC40A040	00000001	004A3686	41288510	4259C000	42579999	C23DACCC	AA252060	AA287D20	4419E060
429D8000	3D3C2136	BD1D8C04	BD1B56DF	8D2CA8B1	3D284144	42DEC713	41AA5E4	00000005	00AD6AA
66AA1890	41905911	C2A46510	41188A88	41A43108	42882888	4060A104	4128CCCC	BF6A7EF9	00000000
0C0AD6AA	004AE85A	41743138	C2986434	413D5230	41376598	42837CE3	411FFC3A	41286666	3F666666
3C666666	00000000	00AD6AA	004B5825	4195C051	C2A44415	41E9DAD9	41A185F0	42B36A58	408AE396
4128CCCC	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
40AFDFE5	4128CCCC	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
C99718A2	421280C7	4210028A	4517AD53	451326DA	451326DA	451326DA	451326DA	451326DA	451326DA
C5C0460	C523A46D	C46F4482	C55C0460	C51A53E6	C51920FE	C512D284	C48FB4C4	C489F5CA	40FC7E51
C41D314E	BFC4E5D0	C2805038	C1A4EF97	45762B12	456F2A38	41100000	00000000	00000000	00000000
4007EDE4	C8998401	00000000	00000000	4007EDE4	40F9F088	C01080BA	8FC8BE9A	49200219	40E90096
40650C03	00000000	C065D89D	40EAD6E1	4114E7DC	421C4307	41648FD0	4218A43A	412226C7	4210E763
41A26057	41192C71	422409CB	428C8A81	4294D500	421B7E73	42A16061	C12D9F44	416E088A	4170E3D2
4127210E	42630A00	45AD6AA0	428E7682	421C468C	45161E9D	41100000	42A70000	40F99998	BF6A7EF9
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40799999	403EFFFF	40199999	3F666666	401EFFFF	401EFFFF	401EFFFF	401EFFFF	401EFFFF	401EFFFF
C240C69	D3E34040	00000001	004DA565	40ECCCCC	BF6A7EF9	3F666666	40199999	40733332	40933332
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4421CD20	44287A00	4419CAE0	42C9E000	3D3B8A5F	BD1DAD7D	801AE45B	3D27D082	42DE9C21	40AAAE44
41AAAC8C	00000006	00AD6AA	004D378A	418BA591	C2A08C35	411799A4	41423182	42B57079	40AAAE44
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4235E838	428CB5FA	4295581E	421BDC07	429F54AE	C12D961A	416AE80A	BF6A7EF9	BF6A7EF9	BF6A7EF9
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451398FF	C41A8000	AAF107AA	451398FF	C4A8700F	AA8A1FF1	C4A8700F	C4A8700F	C4A8700F	C4A8700F

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 4314555C 3FA85237 61568C75 C013F7CE 00000001

4/17/73

D-13800

IMP-I TAPE REPORT FOR TAPE Z-718

#	ORBIT	FILE	RECORDS	POINTS	FIRST TWELVE HOURS			LAST TWELVE HOURS				
					APPROX. START YYMMDD	HMMSS	STOP YYMMDD	APPROX. START YYMMDD	HMMSS	STOP YYMMDD		
1)	51	1	422	8384	711007	21335	711007	141301	711010	171353	711011	51340
2)	52	2	402	7973	711011	51350	711011	171459	711014	222705	711015	91843
3)	53	3	406	7662	711015	91448	711015	211637	711019	3250	711019	123236
4)	54	4	423	8406	711019	122932	711020	3213	711023	45231	711023	165248
5)	55	5	423	8366	711023	164801	711024	44951	711027	74049	711027	194036
6)	56	6	423	8415	711027	200256	711028	80526	711031	115442	711031	235348
7)	57	7	423	8393	711031	235803	711101	120034	711104	151443	711105	31430
8)	58	8	421	8208	711105	31055	711109	151143	711108	191944	711108	71941
9)	59	9	421	8336	711109	82458	711109	202556	711113	2100	711113	122046
10)	60	10	419	8229	711113	121610	711114	1658	711117	25804	711117	145750
11)	61	11	424	8411	711117	145254	711118	25544	711121	53751	711121	173748
12)	62	12	415	8057	711121	175815	711122	55802	711125	93806	711125	213753
13)	63	13	420	8176	711125	214533	711126	94641	711129	133942	711130	13929
14)	64	14	419	8116	711130	13954	711130	139754	711203	172284	711204	88231
15)	65	15	390	7072	711204	51846	711204	171031	711207	220059	711208	100056
16)	66	16	419	8128	711208	95022	711208	215049	711211	234148	711212	114143
17)	67	17	390	7736	711212	113638	711212	233908	711216	41345	711216	161341
18)	68	18	422	8359	711216	160916	711217	40923	711220	64258	711220	184245
19)	69	19	387	7120	711220	190322	711221	70248	711224	105245	711224	224147
20)	70	20	415	8040	711224	223722	711225	104033	711228	102245	711228	28940
21)	71	21	401	7388	711229	30858	711229	150834	720101	184017	720102	62453
22)	72	22	418	8036	720102	64024	720102	165210	720103	211052	720104	91038
23)	73	23	422	8323	720106	90542	720106	210630	720109	210459	720110	90446
24)	74	24	422	8337	720110	90132	720110	210139	720114	35642	720114	158638
25)	75	25	422	8360	720114	161848	720115	42037	720118	80548	720118	200545
26)	76	26	422	8340	720118	290119	720119	60146	720122	112245	720122	232242
27)	77	27	404	7722	720122	231857	720123	111823	720126	154448	720127	34445
28)	78	28	415	7913	720127	34040	720127	134026	720130	180348	720131	60343
29)	79	29	402	7978	720131	55940	720131	165116	720203	231538	720204	111845
30)	80	30	422	8407	720204	110947	720204	230934	720208	4654	720208	124641
31)	81	31	403	7929	720208	130840	720209	10847	720212	44952	720212	164939
32)	82	32	423	8373	720212	164442	720213	44713	720216	71643	720216	191640
33)	83	33	407	7823	720216	191255	720217	71423	720220	120602	720221	549
34)	84	34	422	8206	720220	235647	720221	115857	720224	142057	720225	22044
35)	85	35	422	8321	720225	25358	720225	145425	720228	205942	720229	85939
36)	86	36	421	8303	720229	85513	720229	205642	720303	223748	720304	103734
37)	87	37	424	8438	720304	105021	720304	225252	720308	21958	720308	141945
38)	88	38	423	8356	720308	141550	720309	21719	720312	55155	720312	175142
39)	89	39	393	7605	720312	174747	720313	54652	720316	104156	720316	224153
40)	90	40	421	8171	720316	223747	720317	103916	720320	125306	720321	5252
41)	91	41	407	8084	720321	22211	720321	133323	720324	161510	720325	41202
42)	92	42	345	6496	720325	54314	720325	172405	720328	214017	720329	93943
43)	93	43	394	7449	720329	93507	720329	213738	720402	5938	720402	113857
44)	94	44	416	8259	720402	132568	720403	10103	720406	30946	720406	156953
45)	95	45	393	7826	720406	165716	720407	43544	720410	80028	720410	184049
46)	96	46	417	8180	720410	201707	720411	80235	720414	111502	720414	231449
47)	97	47	415	8000	720415	4914	720415	123715	720418	143545	720419	23541
48)	98	48	394	7815	720419	41615	720419	155514	720422	212910	720423	92856
49)	99	49	403	8020	720423	92319	720423	212326	720426	214953	720427	94940
50)	100	50	417	8205	720427	112608	720427	231014	720501	14441	720501	134053

ALL DONE.

Z-718 D-13800
 10/27/71-5/1/72

RECORD 1 OF FILE
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C546B87B	C5304C21	451C9B7F	442E00313	43E6C993	C0F92929	C0356C99	C0172921	C2923329	
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4129FFFF	4118CCCC	C013F7CE	00000007	E2D7C5C3	40C7C1C9	D5404040	00000000	007A5526	411B3333
BF04FDF2	C013F7CE	41279999	41359999	4013F7CE	00000006	C1C3A0C7	C1C9D540	40404040	00000001
617A6920	411ECC00	BF04FDF2	BF6A7EF9	00000000	40666666	403FFFFF	BF6A7EF9	BF6A7EF9	BF6A7EF9
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423C29D	4144CCCC	C013F7CE	00000001	000AD95F	007B1566	41A0578A	C221A6A4	402810E4	419A1D37
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4195C194	43146A40	40235AF9	4144CCCC	C013F7CE	00000001	000AD95F	007B654B	419E409A	C2213148
401F0906	4194CABA	43146E0F	401F807F	4144CCCC	41433332	C013F7CE	00000001	00AD95F	00788B50
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IMP-I TAPE REPORT FOR TAPE Z-719

D-13801

11/16/73

#	ORBIT	FILE	RECORDS	POINTS	FIRST TWELVE HOURS			LAST TWELVE HOURS			STOP	
					APPROX. YMMDD	START HHMMSS	STOP YMMDD	APPROX. YMMDD	START HHMMSS	STOP YMMDD		
1)	101	1	415	8247	720501	145106	720502	22336	720505	61638	720505	181635
2)	102	2	419	8325	720505	184837	720506	63932	720509	92950	720509	212947
3)	103	3	423	8322	720509	212542	720510	92812	720513	125955	720514	5952
4)	104	4	422	8414	720514	5111	720514	125037	720517	170548	720518	50545
5)	105	5	422	8286	720518	50129	720518	170308	720521	201658	720522	81645
6)	106	6	419	8310	720522	83337	720522	203303	720526	4450	720526	124447
7)	107	7	405	7572	720526	124041	720527	4352	720530	34952	720530	154938
8)	108	8	413	8133	720530	154604	720531	34611	720603	74946	720603	194943
9)	109	9	419	8156	720603	194213	720604	74200	720607	120502	720608	448
10)	110	10	421	8335	720608	155	720608	120425	720611	132950	720612	12937
11)	111	11	423	8369	720612	12501	720612	132630	720615	173939	720616	53936
12)	112	12	422	8378	720616	55922	720616	175848	720619	220508	720620	100454
13)	113	13	424	8398	720620	95958	720620	220228	720624	3402	720624	123348
14)	114	14	418	8054	720624	123642	720625	3913	720628	50539	720628	176526
15)	115	15	422	8294	720628	170049	720629	50259	720702	71506	720702	191453
16)	116	16	394	7782	720702	191037	720703	71125	720706	124359	720707	4356
17)	117	17	409	7643	720707	3951	720707	124039	720710	142855	720711	22852
18)	118	18	419	8081	720711	23825	720711	144014	720714	185748	720715	65735
19)	119	19	421	8348	720715	65502	720715	185306	720718	221507	720719	101504
20)	120	20	423	8429	720719	101332	720719	221633	720723	21745	720723	141732
21)	121	21	379	7013	720723	142512	720724	22519	720727	52450	720727	172447
22)	122	22	421	8323	720727	171555	720728	51825	720731	91005	720731	210952
23)	123	23	415	8033	720731	210557	720801	90726	720804	133150	720805	13146
24)	124	24	421	7964	720805	12051	720805	132038	720808	154745	720809	34753
25)	125	25	399	7334	720809	35655	720809	155540	720812	200503	720813	80450
26)	126	26	421	8258	720813	80034	720813	200021	720816	230255	720817	110242
27)	127	27	416	7951	720817	120738	720818	826	720821	31142	720821	151149
28)	128	28	423	8273	720821	150247	720822	30517	720825	70954	720825	190930
29)	129	29	374	6952	720825	190525	720826	70431	720829	105955	720829	225942
30)	130	30	407	7678	720829	225040	720830	105148	720902	133052	720903	13048
31)	131	31	422	8327	720903	14507	720903	134738	720906	174201	720907	54147
32)	132	32	394	7703	720907	53722	720907	173739	720910	222128	720911	84750
33)	133	33	409	7715	720911	64355	720911	204342	720915	4940	720915	124947
34)	134	34	419	7990	720915	124045	720916	4133	720919	35056	720919	155043
35)	135	35	422	8318	720919	154546	720920	34655	720923	90003	720923	205949
36)	136	36	421	8191	720923	205635	720924	85845	720927	112146	720927	232133
37)	137	37	422	8233	720927	234048	720928	114319	720933	152505	720934	32441
38)	138	38	416	7981	720934	32259	721002	152448	721005	191344	721006	71331
39)	139	39	414	8146	721006	74705	721006	194834	721009	235043	721010	115040
40)	140	40	422	8344	721010	115141	721010	235107	721014	22200	721014	142146
41)	141	41	416	8247	721014	141720	721015	21920	721018	54951	721018	174948
42)	142	42	397	7788	721018	174644	721019	54914	721022	101844	721022	221841
43)	143	43	416	7893	721022	223016	721023	102942	721026	140054	721027	20051
44)	144	44	419	7955	721027	15646	721027	135635	721030	172238	721031	52245
45)	145	45	421	8283	721031	55721	721031	175728	721103	203955	721104	83942
46)	146	46	422	8333	721104	83019	721104	203107	721108	1456	721108	121453
47)	147	47	424	8413	721108	121048	721109	1318	721112	40457	721112	160444
48)	148	48	420	8357	721112	160048	721113	40319	721116	62357	721116	182343
49)	149	49	417	8003	721116	184441	721117	64509	721120	111945	721120	231942
50)	150	50	422	8352	721120	231516	721121	111543	721124	150844	721125	30841

ALL DONE.

2719
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RECORD 1 OF FILE 1
LENGTH = 31844 BYTES

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